

Blue Light Special

Unique add-on fan box beefs up circulation inside RV refrigerators, leading to more efficient operation and less food spoilage

DIFFICULTY

1 2 3 4 5

TIME TO COMPLETE

1 HOUR

TOOLS NEEDED

PHILLIPS HEAD SCREWDRIVER, PLIERS

RV gas/electric absorption refrigerators are subject to improper installation and high-ambient temperatures that can significantly affect the cooling process. When outside temperatures soar to 100 degrees Fahrenheit and higher, refrigerators need all the help they can get. A simple solution is to add a Fridge-Fix by Smart RV Products, a compact box with three waterproof fans and a pleasant blue light.

RV refrigerators are not equipped with interior fans, so there's no circulation; it's not uncommon to see box temperatures higher than 45 degrees F — warm enough to lead to food spoilage. When refrigerators are overloaded with excess food, the temperature zones become far less efficient. When condensation builds up on the condenser fins, cooling can be reduced by up to 25 percent. Often, this excess moisture can turn to ice, and adequate cooling is further affected.

Ice buildup is a common problem that affects nearly half of the RV refrigerators on the market today. Ice and additional condensation buildup can be caused by worn-out door gaskets or any food that has been left uncovered. When the thermistor, the refrigerator's temperature sensor, becomes encapsulated in ice, a false temperature reading occurs, and airflow across



The Fridge-Fix is equipped with internally mounted LED lights, an added bonus for RV refrigerators that lack adequate interior lighting.

the cooling fins is diminished. The Fridge-Fix eliminates frost buildup and accurately regulates cooling with its increased airflow.

Fridge-Fix is guaranteed to shorten cool-down time and cool all zones by quietly circulating inside air 10 to 12 times per minute, yet it draws only .5 to .75 amps. The high-quality fans are designed to last a minimum of 50,000 hours of operation.

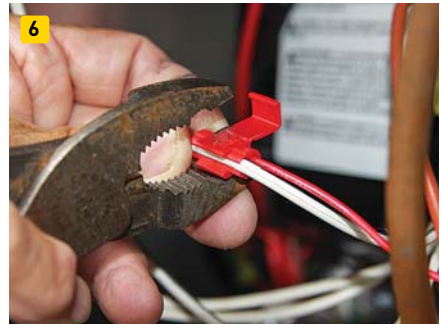
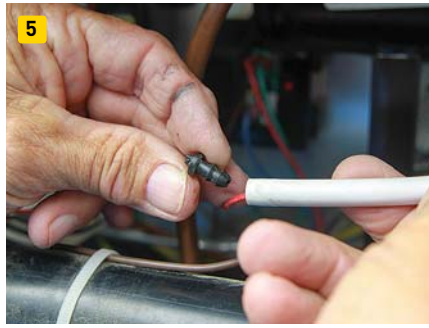
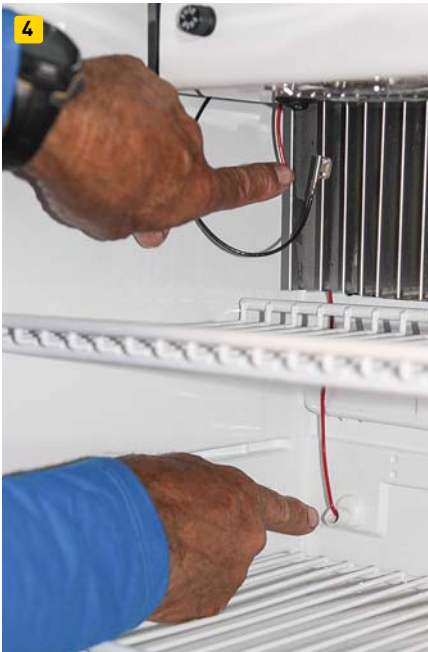
While Fridge-Fix offers applications to fit most refrigerator models, the install was done on a Norcold model 1210. For this installation, the top shelf and drip tray are replaced by a modi-

fied new version. Removal is easy, but make sure the condensation drain hose is not pulled out of place. In some models, like the Norcold 1210, the interior light will be in the way of mounting the Fridge-Fix. If this is the case, simply remove the lens and the two screws holding the light fixture in place; the light will be relocated later in the installation.

There are no holes to drill; the Fridge-Fix mounts securely using hook-and-loop fasteners. Clean the area where the hook-and-loop material will

KEEP YOUR COOL » The Fridge-Fix kit comes fully assembled and installs easily using hook-and-loop tape. Smart RV Products offers applications to fit most RV refrigerator models.





1) Determine the location for the Fridge-Fix assembly. Remove the refrigerator's interior light if it interferes with the fan assembly installation. 2) Clean the areas using a mild household cleaner and finish with an alcohol wipe where the Fridge-Fix will attach with hook-and-loop. 3) After peeling the hook-and-loop backing, press into place for 10 seconds to ensure a complete adhesion. 4) Attach the ground clip to one of the refrigerator's interior evaporator fins and route the red wire through the condensation drain tube at the rear of the refrigerator and pull the red wire through. 6) Using the supplied Scotchlok, attach the red wire to the refrigerator's incoming positive wire.

contact the surface of the refrigerator when the unit is in place, dry thoroughly and wipe with alcohol. Peel the backing from the hook-and-loop and push the box in place; hold for 10 seconds with firm pressure. Be certain the Fridge-Fix is tight against the cooling fins.

Attach the ground clip to any of the metal fins, which may require a little help from a small hammer. The interior light is then mounted to the bottom of the Fridge-Fix with two Phillips screws that are already in place. In this model refrigerator, we decided to run the red positive wire through the condensation drain tube. Some refrigerators will have constant 12-volt DC power to the light assembly for even easier installation.

Remove the outside access panel to expose the rear of the refrigerator and remove the plastic plug from the end of the condensation drain tube. Feed the wire down through the drain tube and attach to the positive wire running to the

refrigerator's circuit board with the supplied Scotchlok connector. Cut a small slot in the drain tube and reinstall the supplied drip tray. Attach the drain tube to the supplied drip tray and use a small amount of sealant or putty tape to prevent possible leaking of condensation. Reinstall the top shelf and locking rails.

Total installation time runs around 60 minutes. Since the shelves have to be cleaned and the refrigerator turned off before the installation of the Fridge-Fix, it's great time to clean out your RV's refrigerator.

We began testing the new fan in an ambient temperature of 68 degrees F. The inside of the refrigerator was allowed to reach the same temperature as the interior of the fifth-wheel. After installation of the Fridge-Fix, the refrigerator was set with the thermostat on No. 2 with the door closed and never opened during the cool-down period. Before the install, the cool-down from 68 to 38 degrees F took four hours and 40 minutes. We were able to shave 22

minutes off that cool-down time after the installation of the Fridge-Fix.

When opening the door for the first time, we could feel the circulation of cold air from the three very efficient fans. There is no question that the Fridge-Fix will save electricity and LP-gas with its highly efficient air-circulation system.

Fridge-Fix fits most model refrigerators but not all. It is important to be certain of the correct size and model of the refrigerator before ordering the Fridge-Fix. The Smart RV Products website has good references for choosing the right model; email the company for answers to specific questions (have the refrigerator model number handy).

Prices range from \$64.95 to \$109.95. The Fridge-Fix is backed by a two-year, no-questions-asked warranty. 📧

Smart RV Products

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